

BELYAYEVA, V.N., inzh.; GLUKHOV, I.V., inzh.

Commutation testing of ~~PK~~-301 contactors with labyrinth-slot  
chambers. Sbor. LIIZHT no. 159:165-169 '58. (MIRA 12:2)  
(Electric contactors--Testing)

GLUKHOV, I.V. inzh.

Theory of the traction transformer with high-voltage regulation.  
Trudy LIIZHT no.176:36-46 '61. (MIRA 15:5)  
(Electric transformers)

GLUKHOV, Ivan Vasil'yevich, inzhener

Elements of the theory of a traction transformer with regulation at the higher voltage end. Izv.vys.ucheb.zav.; elektromekh. 5 no.3:285-297 '62. (MIRA 15:4)

1. Byuro elektropodvizhnogo sostava Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta.  
(Electric transformer) (Electric railroads - Current supply)

GLUKHOV, I.V., inzh.

Calculation of voltage stages of the power transformers of  
rectifier locomotives. [Trudy] LIIZHT no.193:93-96 '62.  
(MIRA 15:12)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo  
transporta.

(Electric locomotives)

GLUKHOV, K.A.

The G86,01 mobile clamp forming machine. Biul.tekh.-ekon.  
inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. no.9:59-61  
'62. (MIRA 15:9)

(Agricultural machinery)

REMI-1001, V. 1; 000001, 100.

These products are the result of a research program in  
the animal industry. They have been developed by the

1001 1001

GLUKHOV, L.

Putty made with solids. Serial no. 67 to '58. (BULKY)  
(BULKY)

GLUKHOV, Lev Nikolayevich; SHUL'MAN, Mark Vladimirovich; BORTAKOVSKIY,  
Sergey Yakovlevich; SOLGANIN, G.Ya., vedushchiy red.; MUKHINA,  
E.A., tekhn.red.

[Underground reservoirs for light petroleum products] Podzemnye  
rezervuary dlia svetlykh nefteproduktov. Moskva, Gos.nauchno-  
tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 129 p.  
(MIRA 13:3)

(Petroleum products--Storage)



GLUKHOV, L. N.

Unit for ensuring tank stability. Transp i khran nefti no. 11:  
17-22 '63. (MIRA 17:5)

1. Gosudarstvennyy institut po proyektirovaniyu, issledovaniyu  
i ispytaniyu stal'nykh konstruktsiy i mostov.

GLUKHOV I.S., KONAYUKOV, I.A.

Increase the reliability and efficiency of machines for making  
steep seams. 'Ugol' Ukr. 7 p. 19:20-23 0 '63. (MTR 17:4)

1. Zamestitel' nachal'nika tekhnicheskogo otdela Kombinata  
Kriemugol' (for Glukhov). 2. Zamestitel' glavnogo inzhenera  
trusta Gorlovskuroil' (for Konayukov).

GLUKHOV, M., inzhener-podpolkovnik

So a bearing won't be taken on the station. Starsh.-serzh. no.9:  
17 S '61. (MIRA 15:2)

(Radio, Military)

1(0); 19(0)

PHASE I WORK EXPLOITATION

301/3269

Glukhov, M.K., M.M. Danilevskiy, P.G. Yermakov, V.B. Yemel'yanenko,  
V.M. Iozovoy-Shevchenko, P.F. Plyachenko, V.I. Sekachev, and A.A. Shukayev.

Vozdushno-vozdushnyye sily (Air Force) Moscow, Voen. izd-vo M-va obor. SSSR,  
 1990, 202 p. (Series: Biblioteka ofitsera) No. of copies printed not given.

General Ed.: M.K. Glukhov, Docent, General-Major of the Air Force; Eds.:  
 A.S. Mirnyy, Colonel, and N.P. Gordeyev, Colonel, (ret.); Tech. Ed.:  
 M.A. Strel'nikova.

PURPOSE: The book is intended for military personnel. It will be of interest  
 to all those interested in the role of air power in modern warfare.

COVERAGE: The book surveys the history of the Soviet Air Force and discusses  
 its organizational set-up, types of aircraft, combat characteristics, tasks,  
 and armament. The role of aviation in modern military strategy is analyzed  
 and the cooperation necessary between air, ground, and naval forces defined.  
 Future prospects of development of Soviet aviation are outlined. Some  
 attention is paid to the development and possible use of nuclear weapons by  
 the Air Force and in anti-aircraft defense. Photos and specifications of the

Card 1/5

Air Force

SOV/3269

following Soviet aircraft are given: AN-10 turboprop transport aircraft, Tu-110 transport jet, Mi-6 turboprop helicopter, Yak-24 two-engined helicopter, Mi-4 helicopter, Tu-104 turbojet transport aircraft, Il-14 transport aircraft, ANT-35 (Ps-35) transport aircraft, MiG-15bis fighter, Tu-14 bomber, Be-6 bomber, Il-28 bomber, Pe-2 bomber, DB-3F (Il-4) bomber, Il-10 fighter, La-5 fighter, and the Yak-3 fighter. There are 40 Soviet references.

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Air Force

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Air Force

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AVAILABLE: Library of Congress	
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5/020/60/132/02/03/067

AUTHOR: Glukhov, M. M.

TITLE: On the isomorphism of Structures.

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 142, No. 2,  
pp. 254-256

TEXT: Let  $P(x_1, x_2, \dots, x_n; S)$  be a finite structuroid with the elements  $x_1, \dots, x_n$  and the Cayley table  $S$  for intersections and unions of its elements. From the theorem on the possibility of embedding structuroids into structures (Ref. 1) and from (Ref. 2) it follows that the free extension of  $P(x_1, \dots, x_n; S)$  is a structure which is defined by the generating elements  $x_1, \dots, x_n$  and a system of the determining relations  $S$ . Let this structure be denoted with  $FL(P)$ . The author introduces the notion of the base of a structuroid and proves:  
Theorem 4: There exists an algorithm which allows in finite many steps to determine the base of a finite structuroid  $P(x_1, x_2, \dots, x_n; S)$ .  
Theorem 5: Every finite structuroid possesses a unique base.  
Theorem 6: Let  $P'$  and  $P''$  be two finite structuroids. In order that the structures  $FL(P')$  and  $FL(P'')$  be isomorphic, it is necessary and sufficient that the bases of  $P'$  and  $P''$  are isomorphic.

Card 1/2

On the Isomorphism of Structures

S/C20/60/152/02/03/067

There are 4 references: 2 Soviet, 1 English and 1 American

ASSOCIATION: Moskovskiy gosudarstvennyy pedagogicheskiy institut  
Imeni V. I. Lenina (Moscow State Pedagogical Institute  
Imeni V. I. Lenin)

PRESENTED: January 12, 1960, by A. J. Mal'tsev, Academician

SUBMITTED: January 9, 1960

Card 2/2

GLUKHOV, M.M.

Theoretical structural theorem of a type resembling Grushko's  
theorem. Dokl.AN SSSR 138 no.5:994-997 Je '61. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut im. V.I.  
Lenina. Predstavleno akademikom A.I.Mal'tsevyam.  
(Groups, Theory of) (Structures, Theory of)

GLUKHOV, M.M.

Free product of structures with a finite number of generators.

Uch. zap. MGPI no.188:55-69 '62.

(MIRA 16:0)

(Algebra, Universal)

GLUKHOV, M. M.

Vazhneishie meditsinskie rasteniya i sposoby ikh razvedeniya, Moscow, 2nd ed., 1929.,  
568 pp.

GLUKHOV, M. M.

Helliferous plants Iza. 6., perer. 1 dop. Moskva, Sel'khozgiz, 1955. 512 p.

KRISHCHUNAS, I.V., akademik, redaktor; GUBIN, A.F., doktor sel'sko-  
khozyaystvennykh nauk, redaktor; GLUKHOV, M.M., redaktor;  
VESKOVA, Ye.I., tekhnicheskii redaktor

[The pollination of agricultural plants] Opylenie sel'sko-  
khoziaistvennykh rastenii. Pod obshchei red. I.V.Krishchunasa i  
A.F.Gubina. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 230 p.  
(MLRA 9:10)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni  
V.I.Lenina.

(Fertilization of plants)

GLUKHOV, P.

Where do bees get honey. IUr.mat. no.4:77 An 153. (MIRA 11:6)  
(Honey plants)



GLUKHOV, Mikhail Mikhaylovich, agron.; LYUTFALIBEKOV, P.A., red.; FEDOROVA, Yu.A.,  
red.; SAYTANIDI, I.D., tekhn. red.

[Album of honey plants] Al'bum medonosov. Moskva, Izd-vo M-sya sel'-  
khoz. RSFSR, 1960. 170 p. (MIRA 14:10)  
(Honey plants)

GLUKHOV, N., inzh.

Errors in the popular pamphlet on the Intergovernmental  
Maritime Consultative Organization (IMKO). Mor. flot 20  
no. 12:45-46 D '60. (MIRA 13:12)

1. Otdel vneshnikh snosheniy Ministerstva morskogo flota.  
(Merchant marine--Congresses) (International agencies)

GLUKHOV, N.

Remarks of a union worker. Obshchestv. pit.no.8:23-24 Ag '61.  
(MIA 14:10)

1. Zaveduyushchiy zhilishchno-bytovym otdelom TS-linnogo  
kraysovrufa.

Virgin Territory--Restaurants lunchrooms. .)



GLUKHOV, N.

Workers' lunchrooms for the state farm workers in the Virgin Territory.  
Obshchestv.pit. no.1:32 Ja '63. (MIRA 16:4)

1. Zaveduyushchiy otdelom krayevogo soveta professional'nykh soyuzov.  
TSelinograd.

(Virgin Territory--Restaurants, lunchrooms, etc.)

GLUKHOV, N. (TSelinograd)

Let's give better service to Virgin Territory residents. Sov. torg.  
37 no.11:42 N '63. (MIRA 16:12)

ACCESSION NR: AT4034008

S/0000/63/000/000/0236/0239

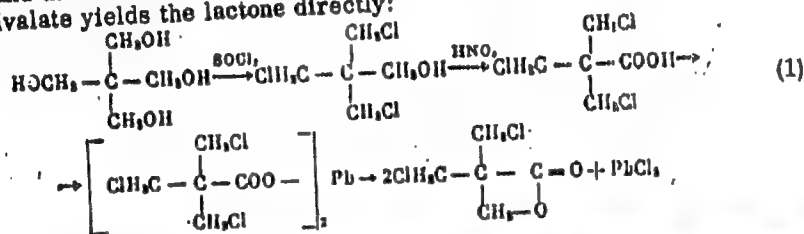
AUTHOR: D'yachenko, T. D.; Glukhov, N. A.; Koton, M. M.; Sazanov, Yu. N.

TITLE: Synthesis and polymerization of  $\alpha, \alpha'$ -bis-chloromethyl- $\beta$ -propiolactone

SOURCE: Geterotsepnny\*ye vy\*sokomolekulyarny\*ye soyedineniya (Heterochain macromolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 236-239

TOPIC TAGS: lactone, lactone synthesis, propiolactone, lactone polymerization, pentaerythritol

ABSTRACT: The authors accomplished the synthesis of the lactone from pentaerythritol which was successively converted to pentaerythritol trichlorohydrin by the action of chlorothionyl, and then to trichloropivalic acid by the action of nitric acid. Pyrolysis of lead trichloropivalate yields the lactone directly:



Card 1/3

ACCESSION NR: AT4034008

In the procedure, 190 g of pentaerythritol trichlorohydrin were treated with an excess of concentrated nitric acid for 30 hrs until the complete removal of nitrogen oxides. The mixture was then cooled down to room temperature and the crystals of trichloropivalic acid were washed with ice water, dried and recrystallized from n-hexane. The acid melted at 109-110 C, and the yield was 60-65% of the theoretical. C-, H- and Cl-analyses and M-determination agreed with the theoretical values. The acid was dissolved in ethyl alcohol and reacted with an equimolar amount of lead acetate. The precipitate of lead trichloropivalate was dried in a vacuum over  $P_2O_5$ . The melting point was 180 C, the yield -- 65-70% and the analysis and molecular weight were in agreement with the theoretical. The pyrolysis of the lead salt was carried out on an oil bath at 150-160 C and  $10^{-3}$ - $10^{-4}$  mm vacuum in a specially devised flask preventing the over-heating of the product. Special care was taken to keep the salt absolutely dry. The lactone obtained melted at 35 C, had a yield of 65-78%, a mol. weight of 168.11, and the C-, H-, and Cl-content was in agreement with the theoretical. The thermal polymerization of the lactone was also investigated between 40 and 120 C and the 0 destruction at 300 C. The latter showed that the lactone was stable at up to 250 C. Orig. art. has: 5 figures.

Card 2/3



ACCESSION NR: AT4034008

ASSOCIATION: Institut vy\*sokomolekulyarny\*kh sovedneniy AN SSSR (Institute of High-Molecular Compounds, AN SSSR)

SUBMITTED: 14Mar63

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: OC

NO REF SOV: 001

OTHER: 004

Card 3/3

GILFICK, J. L.

"Study of the errors in machining of holes on vertical lathe."   
 Sub 5 Mar 61, Moscow (dir of the Inter-Relational Technical   
 School from Pauran

Discussions presented for reference and only writing to pass to   
 Moscow during 1961.

CC: ... .., 1 May 61

GLUKHOV, N.A.

RODIONOV, Ye. P.; GLUKHOV, N.A.; ZHAMENSKIY, A.A., redaktor; YAKOBSON, M.O.,  
redaktor.

[Surface finish and apparatus for rating it] Chistota poverkhnosti  
i pribory dlia ee otsenki. Moskva, Trudrezervizdat, 1953. 41 p.  
(Surfaces (Technology)) (MLRA 7:8)

GLUKHOV, N

Rabota na koordinatno-rastochnykh stankakh (The work of Coordinated-boring machine tools, by) N.M. Glukhov i A.N. Dartau. Moskva, Oborongiz, 1958.  
195 p. Diagra, Tables.

BO: N/5  
741.411  
.G5

GLUKHOV, N.A., kandidat tekhnicheskikh nauk.

Precision of boreholes as affected by the nonperpendicularity of  
table surface and spindle axis of vertical boring machines.

[Trudy] MVTU no.44:92-105 '55.

(MLRA 9:6)

(Drilling and boring machinery)

GLUKHOV, N.A., kandidat tekhnicheskikh nauk.

Borehole precision as affected by unequal twist-drill cutting-edge  
angles. [Trudy] MVTU no.44:106-116 '55. (MIRA 9:6)

(Drilling and boring)

GLUKHOV, N.A.

Selecting the number of teeth in cone differential gear to increase  
the automobile traction capacity. [Trudy] M V T U no.65:49-58 '55.  
(MLRA 9:8)

(Automobiles--Transmission devices)

MALYSHEVA, Z.S., st. prepod.; GLUKHOV, N.A., kand. tekhn. nauk, dots.;  
MINUT, S.B., dots.; PETROV, G.N., kand. tekhn. nauk, dots.;  
RESHETOV, L.N., doktor tekhn. nauk, prof., red.;

[Theory of mechanisms and machines] Teoriia mekhanizmov i  
mashin; kurs lektsii [By] Z.S. Malysheva i dr. Pod red. L.N.  
Reshetova. Moskva, No. 4. [Dynamics of mechanisms and machines]  
Dinamika mekhanizmov i mashin. 1959. 91 p. (MIRA 16:7)

1. Moscow. Moskovskoye vyssheye tekhnicheskoye uchilishche.  
(Mechanisms) (Machinery, Kinematics of)



1. The first

2. The second

3. The third

649540V, N.A.

7

Dehydrocyclization of some aliphatic n-alkane-containing compounds. B. N. Dalgov, N. A. Gerashev, and I. A. Shokhov. *Uchenye Zapiski Leningradskogo Universiteta*, A. Zashchena No. 150, Ser. Khim., Nauk. No. 10, 182-90 (1961); cf. Komarewsky and Colby, *C.A.* 45, 18531<sup>h</sup>; Maatou and Grose, *C.A.* 40, 1332a. — Aliphatic compounds, contg. CO groups, by dehydrocyclization, form phenols or naphthols, thus preserving their O atom. 3-Hexan-2-one at 435° with a mixed oxide catalyst yields  $\alpha$ -cresol 16%, probably by dehydrocyclization of the enol form. Benzalacetone (I) at 460-80° with a mixed catalyst ( $\text{Cr}_2\text{O}_3$  5%,  $\text{MgO}$  10%,  $\text{CuO}$ ) yields naphthalene 21.6%, formed probably by reduction of  $\beta$ -naphthol obtained by dehydrocyclization of the enol form of I; at 430-40° with a mixed catalyst ("NS" with 2%  $\text{K}_2\text{O}$ )  $\beta$ -naphthol 4% is obtained. *Reprints from*

20-1-26/54

AUTHORS: Mitin, Yu. V., Glukhov, N. A.,  
 TITLE: Polymerization of Some Compounds Having Two Isopropenyl Groups  
 (Polimerizatsiya nekotorykh soyedineniy s dvunya izopropenilny-  
 mi gruppami)  
 PERIODICAL: Doklady Akad. nauk SSSR, 1957, Vol. 115, Nr 1, pp. 97-99, (USSR)  
 ABSTRACT: In a study of the dimerization of  $\alpha$ -methylstyrene under the influ-  
 ence of catalysts of the ion type  $\text{SnCl}_4$ ,  $\text{TiCl}_4$ , and  $\text{AlCl}_3$  it was  
 shown that at an elevated temperature (70-100° C) only one forma-  
 tion of the dimer takes place which is a saturated crystalline pro-  
 duct. By a direct synthesis it was convincingly demonstrated that  
 the latter is a 1,1,3-trimethyl-3-phenyl-indan (structural formula  
 given). Similar dimerization products are also formed from some other  
 $\alpha$ -methylstyrenes substituted in the nucleus. Thus  $\alpha$ -methylstyrene oc-  
 curs as a monofunctional compound under certain conditions. It was  
 interesting to investigate the behaviour of compounds which contain  
 two isopropenyl groups, under conditions analogous to those prevail-  
 ing in the formation of the saturated  $\alpha$ -methylstyrene. In other  
 words, a number of bifunctional substances was investigated, in or-  
 der to obtain linear polymers which contain benzene cycles in the  
 basis chain. The expected course of reaction is explained by struc-  
 tural formulae. The following bifunctional compounds were produced  
 and characterized: 1,4-di-isopropenyl-benzene, 4,4'-di isopropenyl-  
 diphenyl-methane, and 4,4'-di-isopropenyl-diphenyl-ethane. The

Card 1/3

Polymerization of Some Compounds Having Two Isopropenyl Groups. 20-1-26/5L

produced compounds were subjected to polymerization in a solution of toluol in the presence of  $\text{SnCl}_4$  and a co-catalyst  $\text{HCl}$ . In all cases polymers developed which were soluble in benzene and its analogs, in carbon tetrachloride, carbon disulphide and some others insoluble in alcohols. After resedimentation they are obtained in the form of white powder. Its elementary composition precisely agrees with that of the initial monomers. They are saturated and do not undergo addition of bromium. Structural formulae for them are proposed. In view of an exceptional resistance of the polymers to oxidizing and thermal destruction, no individual oxidation or decomposition products were obtained. The similarity of the infrared spectra of the polymers and of 1,3,6-trimethyl-indan which was chosen as a model compound speaks in favor of the proposed structures VI and VII. The optical properties show that the benzene rings are in the main chain of the polymer. Thus it was proved that under certain conditions it is possible to produce linear polymers of the compounds concerned which do not react with ion-type catalysts. There are 1 illustration, 1 table and 1 Slavic reference.

Card 2/3

Polymerization of Some Compounds Having Two Isopropenyl Groups. 20-1-26/54

ASSOCIATION: Institut for High Molecular Compounds of the AN of the USSR  
(Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR)

PRESENTED BY: Kargin, V. A., Member of the Academy, April 17, 1957

SUBMITTED: February 8, 1957

AVAILABLE: Library of Congress

Card 3/3



Synthesis and Properties of the Polymers of  
of Halogen Substituted Styrene Derivatives, VII:  
Trichloro Styrenes and Pentachloro Styrenes

207,73-25-12-26/21

of pentachloro styrene and its copolymers are pointed to. To fill this gap the authors systematically continued their investigations in the field of substituted styrenes and devised the synthesis of the 2,4,5- and 2,3,4-trichloro styrenes unknown in publications. Furthermore, the conditions of pentachloro styrene synthesis were improved and the process of polymerization of trichloro styrene was investigated. The polymerization was carried out kinetically in the bulk. The yield of polymers was determined by extraction with methanol from the benzene solutions and by oxidation. Figure 1 shows that 2,3,4-trichloro styrene polymerizes readily (beginning at 45°). The isomer - 2,4,5-trichloro styrene (Figs 2,3) polymerizes much more difficultly. The comparison of the polymerization rates of the polymers of polyhalogen-substituted styrenes to that of unsubstituted styrene is given in figures 4 and 5. 2,4,5- and 2,3,4-trichloro-1-phenyl methyl carbinols were synthesized and characterized for the first time. The polymerization of the 2,3,4-pentachloro styrenes within the temperature range of 100-150°C was investigated. The following order is

Carb 1,3

Synthesis and Investigation of the Polymerizability  
of Halogen Substituted Styrene Derivatives. VII.  
Trichloro Styrene and Polychloro Styrenes

SCV/79-28-12-26/41

Abstract: In respect to the polymerization rate of polyhalogen  
styrenes, the following order is observed:  $\text{X} = \text{Cl} > \text{Br} > \text{I} > \text{F}$  pentachloro  
styrene  $> 3,4$ -dichloro styrene. It was found that the  
steric hindrance of the substituents in the benzene nucleus  
of styrene upon the rate of polymerization increases with the  
number of chlorine atoms. There are 5 figures and  
1 table. See also 790101 and 790102.

ASSOCIATION: Institute for Complexed Chemistry, Soviet Academy of Sciences, USSR  
Institute of High Molecular Compounds, Academy of Sciences,  
USSR

SUBMITTED: June 8, 1979

Card 3/3





### Production of the 1<sup>st</sup> polymers

83625  
3/17/90 002.00/01/01  
2024 5.00

( $R = O$  or  $CH_2$ ). The mixture was emulsified, and the aqueous solution of a base was added (e.g., piperidine) for 1-2 hours; it was mixed at 50-60°C; the chloroform was then poured off, and the polymer was precipitated by means of alcohol. The resulting polymers did not differ from the chelate polymers which had been obtained earlier (Ref. 1, 2), especially when at a high temperature. Most of the polymers were soluble in piperidine and dimethylformamide. The melting point of the chelate polymers depended on the atomic number of the metal (Fig.). The polymers with beryllium and barium showed the highest thermal stability, while the lowest was found in polymers with copper and zinc, which lost 20-30% of their weight after five hours heating to 300°C. There are 1 figure and 2 references; 1 Soviet and 1 US.

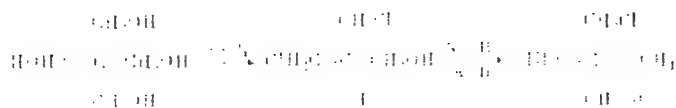
ASSOCIATION: Institut vysokomolekulyarnykh soedineniy AN SSSR  
(Institute of High-molecular Compounds of the AS USSR)

SUBMITTED. February 9, 1966

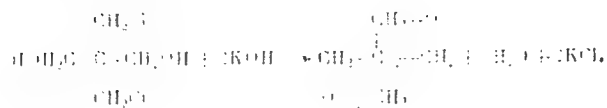
Card 2/2



Carbonyl and I amide groups, respectively  
(1) (2) (3)



(1) is a crystalline solid, mp 100-101°C, IR (KBr) 3400 (broad), 2900, 1700, 1650, 1550, 1450, 1350, 1250, 1150, 1050, 1000, 950, 900, 850, 800, 750, 700, 650, 600, 550, 500, 450, 400, 350, 300, 250, 200, 150, 100, 50, 0 cm<sup>-1</sup>. (2) is a crystalline solid, mp 100-101°C, IR (KBr) 3400 (broad), 2900, 1700, 1650, 1550, 1450, 1350, 1250, 1150, 1050, 1000, 950, 900, 850, 800, 750, 700, 650, 600, 550, 500, 450, 400, 350, 300, 250, 200, 150, 100, 50, 0 cm<sup>-1</sup>.



Reaction of (1) with borane in the presence of a catalyst (1) is a crystalline solid, mp 100-101°C, IR (KBr) 3400 (broad), 2900, 1700, 1650, 1550, 1450, 1350, 1250, 1150, 1050, 1000, 950, 900, 850, 800, 750, 700, 650, 600, 550, 500, 450, 400, 350, 300, 250, 200, 150, 100, 50, 0 cm<sup>-1</sup>. Reaction of (1) with borane in the presence of a catalyst (1) is a crystalline solid, mp 100-101°C, IR (KBr) 3400 (broad), 2900, 1700, 1650, 1550, 1450, 1350, 1250, 1150, 1050, 1000, 950, 900, 850, 800, 750, 700, 650, 600, 550, 500, 450, 400, 350, 300, 250, 200, 150, 100, 50, 0 cm<sup>-1</sup>. Reaction of (1) with borane in the presence of a catalyst (1) is a crystalline solid, mp 100-101°C, IR (KBr) 3400 (broad), 2900, 1700, 1650, 1550, 1450, 1350, 1250, 1150, 1050, 1000, 950, 900, 850, 800, 750, 700, 650, 600, 550, 500, 450, 400, 350, 300, 250, 200, 150, 100, 50, 0 cm<sup>-1</sup>.

Card 1

CONFIDENTIAL  
(Microfilm)

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4. The...  
5. The...

(a) (b) (c) (d) (e)

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6	7	8	9	10
11	12	13	14	15

Card 3/



Continued from page 1  
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Table 1.1.1. Dependence of the properties of the polymer on the composition of the monomer: (a) average molecular weight; (b) temperature of melting; (c) glass transition temperature; (d) density; (e) refractive index; (f) dielectric constant; (g) thermal conductivity; (h) thermal stability; (i) solubility; (j) mechanical properties.

(a)	(b)	(c)	(d)	(e)	(f)
24	120	1.24	1.0	1.0	1.0
26	120	1.24	1.0	1.0	1.0
28	120	1.24	1.0	1.0	1.0
32	120	1.24	1.0	1.0	1.0
40	120	1.24	1.0	1.0	1.0

Card 5/6

Synthesis and Polymerization of  $\alpha$ -chloro- $\beta$ -methyl- $\gamma$ -butyrolactone

(Chloromethyl)oxetane

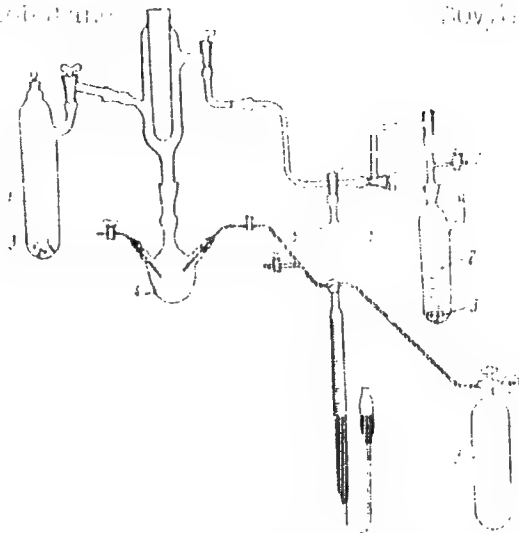


Fig. A. Installation scheme: (1) inlet for monomer; (2) outlet for solvent; (3) inlet for initiator; (4) outlet to the pump; (5) to the X-ray detector; (6) dry air supply; (7) cylinder with air.

Card 6/6



GLUKHOV, N. D.

GLUKHOV, N. D. --"On the Application of Photoelectric Photometry to Solar Observation" Min. Education RSFSR, Leningrad State Pedagogical Inst., Leningrad, 1955. (Dissertation for the Degree of Candidate in Physicomathematical Sciences)

SO: Knizhnaya Letopis', No. 35, 1955

GLUKHOV, N.D. (Ussuriysk)

Mechanism of the origin of a continuous gas spectrum. Fiz. v  
shkola 22 no.3:21-23 My-Je 1962. (MIRA 1567)  
(Gases--Spectra)

BULUSHEV, Yu.A.; GLUKHOV, N.I.; KLEMENT'YEV, Yu.V.; MAKEYEV, A.A.;  
SHAKHOVSKOY, Ye.P.; KRYLIN, A.D., red.; KOLESNIK, D.N., red.;  
YAROVA, L.V., red.izd-va; TIKHONOVA, Ye.A., tekhn.red.

[Collection of international conventions, treaties, agreements  
and regulations concerning problems in commercial navigation]  
Sbornik mezhdunarodnykh konvetsii, dogovorov, soglashenii i  
pravil po voprosam torgovogo moreplavaniia. Moskva, Izd-vo  
"Morskoi transport," 1959. 474 p. (MIRA 12:5)

1. Russia (1923- U.S.S.R.) Ministerstvo morskogo flota.  
(Maritime law)

PHASE I      TREASURE ISLAND BIBLIOGRAPHICAL REPORT      AID 484 - I

BOOK

Call No.: AF618853

Authors: GLUKHOV, N. M. and DARTAU, A. N.

Full Title: WORK ON JIG-BORING MACHINES

Transliterated Title: Rabota na koordinatno-rastochnykh stankakh

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry  
(Oborongiz)

Date: 1953      No. pp.: 196      No. of copies: Not given

Editorial Staff: None

PURPOSE: Approved by the Administration of Working Cadres of the Ministry of the Aviation Industry of the USSR as a textbook in the system of industrial and technical training of workers.

TEXT DATA

Coverage: This book describes briefly the basic types of jig-boring machines, (their implements and devices). The book deals mostly with workshop practice and with the technology of basic operations on jig-boring machines. It contains practical examples of simple and complicated processes, usually with mathematical calculations. The methods of calculation are discussed in detail in Ch. III. To understand them, a high-school training in mathematics including the

Rabota na koordinatno-rastochnykh stankakh

AID 484 - I

fundamentals of trigonometry is necessary. The book is intended to improve the qualifications of jig-boring machine operators, and to be used by foremen and technicians. It is provided with many illustrations, tables and diagrams.

No. of References: 9 (1934-1951)

Facilities: None

2/2

QUESTION, and the answer is that the United States  
is not a party to the Convention.

[The following is a list of the countries which  
are parties to the Convention, and the date of  
their accession to the Convention.]

GLUSHKOV, N.V.

Experimental study of the antimicrobial properties of furazolidone  
in respect to Flexner's dysentery bacillus. Zhur. mikrobiol., epid.  
i immun. 43 no. 1:26-31 Ja '66 (MIRA 19:1)

1. Saratovskiy meditsinskiy institut. Submitted January 26, 1965.

L 5119-66 ENT(1)/SNA(h)

ACCESSION NR: AP5026300

UR/0144/65/000/008/0863/0873  
519.49+681.142

30  
29  
28

AUTHOR: Guzik, V. F. (Engineer); Glukhov, O. D. (Engineer)

TITLE: An interference-free trigger circuit operating at 1 Mc

SOURCE: IVUZ. Elektromekhanika, no. 8, 1965, 863-873

TOPIC TAGS: trigger circuit, interference immunity, circuit design, digital differential analyzer

ABSTRACT: A trigger stage with counter input made of standard B<sub>1</sub> type modules and operating at 1 Mc is proposed. In addition to two standard B<sub>1</sub> type modules, it contains four D9B diodes, three MLT-0.25 10 k $\Omega$   $\pm$ 10% resistors, and two KTM or KTK-1 200  $\mu$ f  $\pm$ 10% capacitances. The paper presents a comprehensive formulation of the problem, describes in detail the design and operation of the basic circuit of the trigger, and reports on the comprehensive experimental tests of the unit (optimum operating conditions, interference stability, and binary scalar operation). Results show that the trigger unit developed for the digital differential analyzer (with a 600-kc frequency) can be utilized in arbitrary

Card 1/2

09010218



L 5119-66

ACCESSION NR: AP5026300

circuits the maximum operating frequency of which does not exceed 1 Mc. Orig. art. has:  
2 formulas, 12 figures, and 1 table.

ASSOCIATION: Taganrogskiy radiotekhnicheskiy institut (Taganrog Radioengineering  
Institute)

SUBMITTED: 20May64

ENCL: 00

SUB CODE: EC

NO REF SOV: 007

OTHER: 000

  
Card 2/2

GLUKHOV, P. A.

USSR/ Engineering - Cold welding

Card 1/1 Pub. 128 - 15/26

**Authors** : Sineok, Ya. Ya.; Baranov, M. S.; Pankul, L. A.; Sapfro, L. S.;  
Kagan, I. Z.; Glukhov, P. A.; Mikhin, V. N.; and Karpichev, A. S.

**Title** : The cold welding of crude iron

**Periodical** : Vest. mash. 2, 68-71, Feb 1954

**Abstract** : In order to familiarize and draw the attention of readers to the pressing problems of cold welding (soldering) of crude iron, the Editorial Office published several articles in which various methods of cold welding are discussed, and a description is given of the operations performed and the type of electrodes and equipment used for the above mentioned purpose. Table; drawings; illustrations.

**Institution:** : .....

**Submitted** : .....

02/01/86

Title of: *Eng. S.V. Agin et al. Moscow, U.S.S.R. Welding Institute*  
 Author: *Eng. S.V. Agin et al. Moscow, U.S.S.R. Welding Institute*  
 Institution: *Eng. S.V. Agin et al. Moscow, U.S.S.R. Welding Institute*  
 Summary: *During the past years, the cold-chamber welding method has rather extensively been used in a pair of cast iron parts. An example of producing new cast iron parts - a 3-pipe of 100 mm diameter and 10 mm wall thickness for deep-sea recovery is shown. Iron-copper electrodes "CUCu-1" of 3 mm diameter are used for the work. The operations are briefly described, and the sequence of operations are shown in the illustration (Fig. 1). There are 2 figures.*  
 Association: *Opytnyy zavodovyy zavod Mosgorsovmashkhoz (Experimental welding plant of Mosgorsovmashkhoz.)*  
 Library: *Library of Congress*  
 Card 1/1

GLUKHOV, P.I., inzh.

Work of the industrial enterprises of Volgograd. from. energ.

19 no.3:5-3 Mr '61.

(MIRA 17:11)

MEURER, I.P., author. [?]; [?], [?], [?];  
 [?], [?], [?]; [?], [?]; [?], [?];  
 [?], [?], [?]; [?], [?]; [?], [?];  
 [?], [?], [?]; [?], [?]; [?], [?];  
 [?], [?], [?]; [?], [?]; [?], [?];  
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[The working class] effort for the reconstruction and  
 development of Far Eastern country, 1942-1945; collection  
 of documents and materials [?]; [?]; [?];  
 [?]; [?]; [?]; [?]; [?]; [?]; [?];  
 [?]; [?]; [?]; [?]; [?]; [?]; [?];  
 [?]; [?]; [?]; [?]; [?]; [?]; [?];

(MIRA 17:9)

1. Zaveduyushchaya arkhivnyy [?]; [?]; [?];  
 [?]; [?]; [?]; [?]; [?]; [?]; [?];  
 [?]; [?]; [?]; [?]; [?]; [?]; [?];  
 [?]; [?]; [?]; [?]; [?]; [?]; [?];

GLUKHOV, P.U.; SHISHKIN, V.N.; KOMAR'KOVA, L.M., red.izd-va;  
~~ROMANOVA, V.V.~~ tekhn. red.

[Technical instructions on the assembling of geodetic signal towers and erecting them in one piece. Approved by the Main Administration of Geodesy and Cartography of the Ministry of Geology and Conservation of Mineral Resources of the U.S.S.R. on June 21, 1962] Tekhnicheskie ukazaniia po storke geodezicheskikh signalov i pod'emu ikh tselikom. Utverzhdeny Glavnym upravleniem geodezii i kartografii MGION 21 iunia 1962 goda. Moskva, Geodezizdat, 1962. 27 p. (MIRA 16:7)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.

(Triangulation signal towers)

GLUKHOV, P.U.

Erection of trihedral wooden signals assembled on the ground.  
Geod.i kart. no.4:34-35 Ap '62. (MIRA 15:12)  
(Triangulation signal towers)

GLUKHOV, P.U.; MIN'KO, V.Yu.

Some calculations in connection with the erection of wooden geodetic  
signs. Geod. i kart. no.5:23-34 My '62. (MIRA 15:7)  
(Triangulation signal towers)



GLUKHOV, P.U.; MINIKO, V.Yu.

Horizontal assembly and lifting of wooden survey signals. Geod. i  
kart. no.6:27-37 Je '62. (MIA 15:8)  
(Triangulation signal towers)

L 31492-66

ACC NR: AP0023196

SOURCE CODE: UR/0243/66/000/001/0024/0027

AUTHOR: Glukhov, S. A.

ORG: All-Union Scientific Research Institute of Medical Instruments and Equipment,  
Moscow (Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i  
oborudovaniya)

TITLE: Analysis of systems for regulating the supply of compressed air to inhalation  
apparatuses 12

SOURCE: Meditsinskaya promyshlennost' SSSR, no. 1, 1966, 24-27

TOPIC TAGS: respirator, flow control, aerosol, pressure regulator, hospital equipment,  
gas flow

ABSTRACT: A device which regulates the quantity of the aerosol flow to patients and takes into account respiratory parameters is described in the article. The device consists of three main chambers in which regulators, valves, and springs regulate the compressed air pressure along the lines of the aerosol flow. The advantage of this device over others currently used is the fact that it allows by means of the regulators to maintain desired pressure (supply of compressed air into the atomizer) in multiline apparatuses independently of the input pressure in the process of regulation. A disproportionate supply of air into the several lines of a multiline apparatus, characteristic of apparatuses in which only a throttle valve is used is thus avoided. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 06, 20 / SUBM DATE: 21Jul65

Card 1/1 me

UDC: 615.417.3

0915

1407

L 55912-65

ACCESSION NR: AP5018323

UR/0243/64/000/008/0049/0052

AUTHOR: Glukhov, S. A.

TITLE: Artificial cough apparatus -- IK-1

SOURCE: Meditsinskaya promyshlennost' SSSR, no. 8, 1964, 49-52

TOPIC TAGS: respiratory system, medical equipment, physical medicine

ABSTRACT: Cough is an important protective reaction of the respiratory organs to the presence of foreign bodies and to the accumulation of sputum and mucus. However, there are a number of diseases, among them poliomyelitis, bronchial asthma, pneumosclerosis, atelectasis, and others in which the respiratory organs are disturbed, causing depression of the

the exudates from the respiratory organs by suction; the other " " by

Card 1/2

L 55912-65  
ACCESSION NR: AP5018323

inducing an artificial cough. The latter, the IK-1 apparatus, is capable of inducing cough by inflation, cough without inflation, suction, and inhalation. The apparatus has been clinically tested at the Institute of Surgery imeni A. V. Vishnevskiy, and approved for production and use. Orig. art. has: 3 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya, Moscow (All-Union Scientific Research Institute of Medical Instruments and Equipment)

SUBMITTED: 27Apr64

NR REF SOV: 003

ENCL: 00

OTHER: 003

SUB CODE: 15

JPRS

0767-66 EWT(1)/EWA(j)/EWA(b)-2 RO

ACC NR: AP5028180

SOURCE CODE: UR/0243/65/000/008/0008/0014

AUTHOR: Glukhov, S. A.

ORG: All-Union Scientific Research Institute of Medical Instruments and Equipment,  
Moscow (Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i  
oborudovaniya)

TITLE: Analysis of systems for controlling the supply of an aerosol to the patient

SOURCE: Meditsinskaya promyshlennost' SSSR, no. 8, 1965, 8-14

TOPIC TAGS: biologic aerosol dispenser, medical equipment

ABSTRACT: There are three methods for supplying aerosols--automatic, semiautomatic, and manual. Automatic control is characteristic of a respirator that supplies compressed air to an atomizer when the patient inhales and stops when he exhales. The aerosol is generated, therefore, only during inhalation. Semiautomatic control involves a system consisting of a respiratory bag and valve box located after the atomizer. The aerosol is generated continuously. It is fed to the patient from the bag only while he inhales. Manual control involves valves operated by the patient. The author concludes that automatic control is the least practicable for inhalation therapy. He recommends a semiautomatic system, especially for seriously ill persons, when

UDC: 615.835.5'-78

Card 1/2

L 10767-66

ACC NR: AP5028180

highly dispersed aerosols are to be inhaled. Manual control, with air released into the atmosphere through a nozzle, is the simplest and most convenient for most types of inhalation therapy. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 06/      SUBM DATE: 26Apr65/      ORIG REF: 000/      OTH REF: 000

Card 2/2

GIBSON, G.A.

Apparatus for oxygen therapy; a brief review. *Av. med. med.*  
no.3:64-157 1964. (NY: 1964)





BENYAKOVSKIY, M.A.; MEL'NIKOV, O.A.; CHUKHLOVA, L.N.; GLUKHOV, S.K.

Improving the surface quality of hot-rolled strips. Metallurg  
8 no.5:28-29 My '63. (MIRA 16:7)

1. Cherepovetskiy metallurgicheskiy zavod.  
(Rolling(Metalwork)—Quality control)

GLUKHOV, T.

Training of skilful miners. Proizv.obuch. 5 no.1:12 Ja '48, (MLRA 7:6)

1. Master shkoly FZO ugol'shchikov No.5 (Rostovskaya oblast').  
(Mining engineering--Study and teaching)

GLUKHOV, V.

The washing and drying of motion-picture film. Sov.foto 14 no.10:70-72  
O '59. (MIRA 11:11)

(Cinematography--Films)

SOV/2210

21(0); 1(0); 2(10)

PHASE I BOOK EXPLOITATION

Atomnaya energiya v aviatsii i raketnoy tekhnike; sbornik statey  
(Atomic Energy in Aviation and Rocket Engineering; Collection  
of Articles) Moscow, Voen. Izd-vo M-va obor. SSSR, 1959. 500 p.  
(Series: Nauchno-populyarnaya biblioteka) No. of copies printed  
not given.

Ed. - Compiler: P.T. Astashenkov, Engineer, Lt.-Col; Ed.: Ya.M.  
Kader; Tech. Ed.: A.M. Gavrilova.

PURPOSE: This book is intended for officers of the Soviet Armed  
Forces, members of DOSAAF, and the general reader interested in  
the uses of atomic energy and in the development of aviation and  
rocket engineering.

COVERAGE: This collection of 46 articles, compiled by 28 Soviet  
scientists and based chiefly on non-Soviet materials, discusses  
various aspects of the use of atomic energy in rocketry and avia-  
tion. The book surveys the development of atomic and thermonuclear

Card 1/9

Atomic Energy in Aviation (Cont.)

SOV/2210

weapons and weapon carriers, lays down the principles of anti-atomic defense, and evaluates the application of nuclear energy in aviation and rocketry. Fuel and construction materials, as well as actual physical and technological processes involved, are treated briefly. Fundamentals of atomic warfare and combat tactics are discussed at some length. The book is divided into four parts, of which the last consists chiefly of anti-Western propaganda. Section I is devoted to nuclear weapons and their use in aviation. Section II is on anti-atomic defense, especially the defense and decontamination of airfields and aircraft, and defense against radiation. Section III is on the use of nuclear energy in modern aircraft and rocket technology and flight techniques, including some speculations on space travel and on the energy of the future. There are 126 figures and 35 non-Soviet references (some in Russian Translation).

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Kurchatov, I.V. [Academician]. Achievements in Science and Tech-

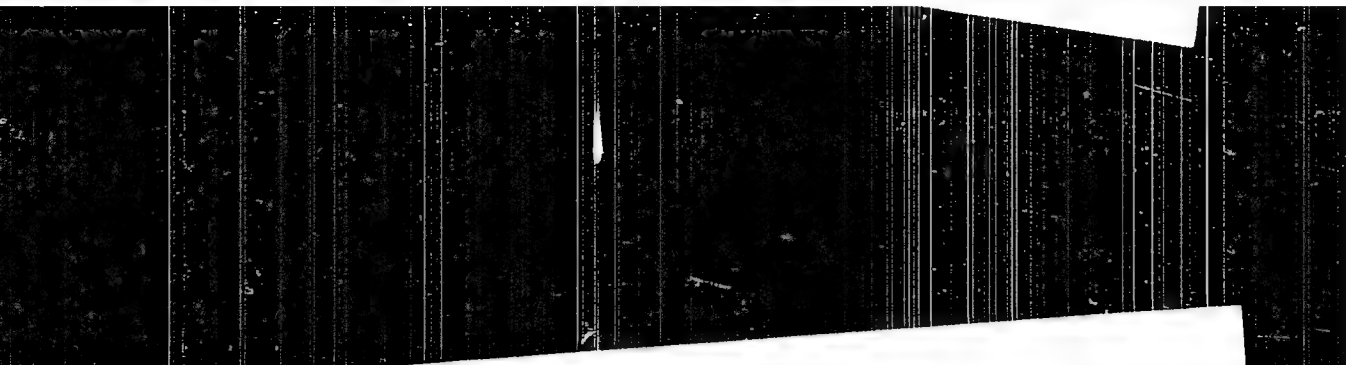
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Atomt. -

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**CIA-RDP86-00513R000515420005-9**



**APPROVED FOR RELEASE: 09/24/2001**

**CIA-RDP86-00513R000515420005-9"**

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Atomic Energy in Aviation (Cont.)

SOV/2210

Replies by the Commander in Chief of the Soviet Armed Forces  
Marshal of Aviation K.A. Vershinin to "Pravda" Correspondents  
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British and West German Generals and Statesmen

487

Literature Used for the Compilation of This Collection of  
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498

AVAILABLE: Library of Congress

Card 9/9

IS/bg  
8-17-59

GLUKHOV, V. (Riga); YAKUBAITIS, E. [Jakubaitis, E.]

Calculation of branched circuit having choking coil with iron core.  
Vestis Latv ak no.10:59-64 '59. (EEAI 9:10)

1. Akademiya nauk Latvyskoy SSR, Institut energetiki i elektrotekhniki.

(Electric circuits) (Iron)

GLUKHOV, V. (Riga)

Determination of characteristics of magnetic amplifier by analogue computer. Vestis Latv sk no.2:79-88 '61.

(EEAI 10:9)

1. Akademiya nauk Latvyskoy SSR, Institut energetiki i elektrotehniki.

(Magnetic amplifiers) (Electronic analogue computers)

GLUKHOV, V.; SEMIDT, R. [Smidts, F.]

Static characteristics of double-winding compounding transformers.  
Vostis Latv ak no.6:59-65 '62.

1. Institut energetiki i elektrotehniki AN Latvyskoy SSR.

GLUKHOV, V.; SHMIDT, R.[Smidts, R.]

Method for analyzing the operation of a compounding transformer with a double winding. Vestis Latv ak no.10:65-72 '61.

1. Akademiya nauk Latvyskoy SSR, Institut energetiki i elektrotekhniki.

(Electric transformers)

АНКЕРА, А.; ШМИТТ, Р. [Smidts, R.]

Self-excitation conditions of a synchronous generator with a  
double-winding compounding transformer. Izv. Akad. Nauk Latv. SSR no. 7:  
(MIRA 17:4)  
1966 '67.

1. Institut enerģētiki AN LatvSSR.



L 1694-66 EWT(1)/EPA(s)-2

ACCESSION NR: AP5017171

UR/0197/65/COO/006/0079/0086

AUTHOR: Vitolin'sh, Ia.; Glukhov, V.; Kutsevalov, V.; Obushev, G.

TITLE: Investigation of a compound-wound contactless synchronous motor

SOURCE: AN LatSSR. Izvestiya, no. 6, 1965, 79-86

TOPIC TAGS: electric motor, synchronous motor, contactless motor /SO51-6 motor

ABSTRACT: The results of an experimental investigation of a SO51-6, 3-kw, 1000-rpm compound-wound contactless synchronous motor are reported. Special attention was paid to the motor overload capacity and stability of operation under varied supply-voltage conditions. These findings are offered: (1) The motor control system maintains  $\cos \varphi = 1$  within  $\pm 3\%$  in the entire load range up to the out-of-step point; (2) When the supply-voltage decreases (increases), the motor draws leading (lagging) current, thus tending to assist in maintaining the normal supply voltage; (3) The motor exhibited stable operation at 81, 71, and 62% of the rated supply voltage with 100, 75, and 50% full load, respectively. Orig. art. has: 5 figures and 1 formulas.

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